

George C. Marshall Space Flight Center  
Marshall Space Flight Center, Alabama 35812

ED43-017  
BASELINE  
JUNE 28. 1999

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# ORGANIZATIONAL WORK INSTRUCTION

## ED43

# MSFC ENGINEERING DRAWING CHECKING

(CONFIGURATION MANAGEMENT MISSION SERVICES)

CHECK THE MASTER LIST-  
VERIFY THAT THIS IS THE CORRECT VERSION BEFORE USE

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## DOCUMENT HISTORY LOG

Status (Baseline/ Revision/ Canceled)	Document Revision	Effective Date	Description
Baseline		June 28, 1999	Document converted from EL31-017 due to reorganization. Precious history retained in system as part of canceled or superseded Department files.

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1. SCOPE

1.1 Scope. This procedure defines the responsibilities, documentation requirements, and the related processes for conducting MSFC Engineering Drawing Checking activities.

1.2 Purpose. The purpose of this procedure is to provide clear instruction to the Mission Services Contractor personnel on their responsibilities to enforce the control of technical requirements through the use of configuration management disciplines and document control.

1.3 Applicability. This procedure is applicable to the Mission Service Contractor personnel performing MSFC Engineering Drawing Checking tasks.

2. APPLICABLE DOCUMENTS

MSFC-STD-555 MSFC Engineering Documentation Standard.

NPG 1441.1 Records Retention Schedule

3. DEFINITIONS

None

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#### 4. INSTRUCTIONS

4.1 MSFC Engineering Drawing Checking. The Mission Services Contractor shall perform checking of engineering drawings for compliance with MSFC-STD-555 prepared for in-house design/development projects. This function shall also be performed on out-of-house design/development payload projects as specifically directed by the Contracting Officer's Technical Representative (COTR). The engineering drawing checking function shall include the following:

a. Review for conformance with the applicable NASA and military standards, practices, handbooks, specifications, directives, MMI's, and manuals with respect to format and technical details.

(1) Format general areas of review include the title block, revision block, note numbering and location, letter size, heavy clear lines and arrows depicting signal paths, visual appearance, and quality of the drawing.

(2) Technical details include correct notes, appropriate and adequate specifications, adequate projected views, sections and details, part marking information, dimensions and tolerancing, tolerance fit checks of detail and assembly parts, terminal numbers on electrical schematics, input and output wave form, and component reference designators.

b. Review of book form documents, such as specifications, standards, requirements, handbooks, procedures, etc., which will be released by the MSFC DRS for conformance to the release system standard, MSFC-STD-555.

c. Consult with design organization personnel prior to and during documentation preparation to provide guidance on preferred techniques of document presentation.

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## 5. NOTES

NONE

## 6. SAFETY PRECAUTIONS AND WARNING NOTES

NONE )

## 7. APPENDICES, DATA, REPORTS, AND FORMS

NONE )

## 8. QUALITY RECORDS)

This OWI is a quality record. The official electronic document is found on the Engineering Systems Department Master List. Retention/disposition in accordance with NPG 1441.1, Schedule 1/72[1410].b.2. Destroy when superseded or obsolete.

## 9. TOOLS, EQUIPMENT, AND MATERIALS

NONE

## 10. PERSONNEL TRAINING AND CERTIFICATION

NONE

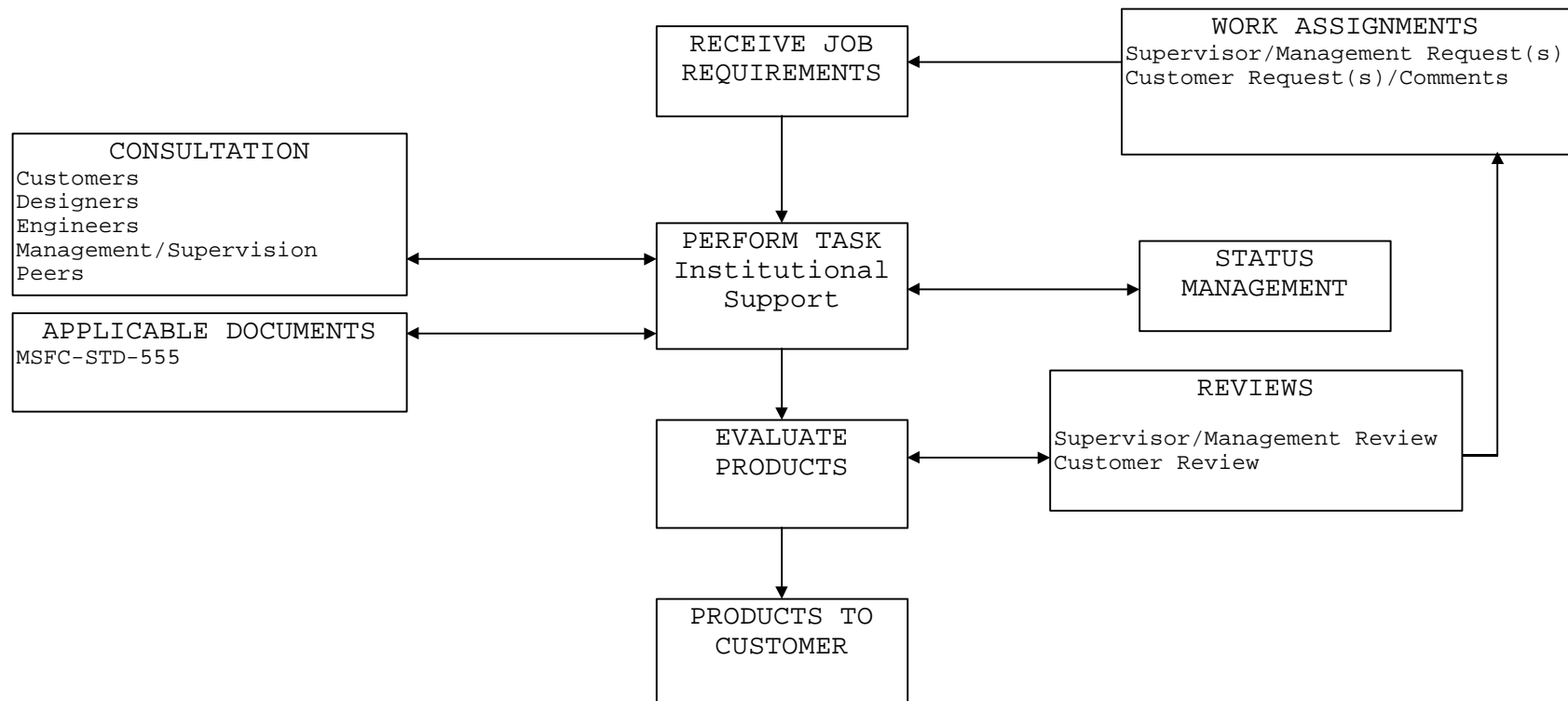
## 11. FLOW DIAGRAM

See APPENDIX A.

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## APPENDIX A

### MSFC ENGINEERING DRAWING CHECKING (CONFIGURATION MANAGEMENT MISSION SERVICES)



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